



## SUPPLEMENTARY EUROPEAN SEARCH REPORT

Application number:  
EP 21 83 72 23

**Classification of the application (IPC):**  
F16C 17/04, F16J 15/16, F16J 15/34, F04C 18/02, F04C 29/00

**Technical fields searched (IPC):**  
F01C, F04C, F16C

DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
X	DE 10324849 A1 (MINEBEA CO LTD [JP]) 05 January 2005 (2005-01-05) * paragraphs [0028], [0034]; figures 1,4 *	1-5
X	WO 2019221226 A1 (EAGLE IND CO LTD [JP]) 21 November 2019 (2019-11-21) * paragraph [0058]; figure 13b *	1-5
X	US 2003041680 A1 (SAITO TATSUYA [JP] ET AL) 06 March 2003 (2003-03-06) * paragraphs [0025], [0033]; figure 5 *	1-5

The supplementary search report has been based on the last set of claims valid and available at the start of the search.

Place of search Munich	Date of completion of the search 13 June 2024	Examiner Descoubes, Pierre
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### CATEGORY OF CITED DOCUMENTS

X: particularly relevant if taken alone	P: intermediate document
Y: particularly relevant if combined with another document of the same category	T: theory or principle underlying the invention
A: technological background	E: earlier patent document, but published on, or after the filing date
O: non-written disclosure	D: document cited in the application
& : member of the same patent family, corresponding document	L: document cited for other reasons

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## ANNEX TO SUPPLEMENTARY EUROPEAN SEARCH REPORT

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on 13-06-2024  
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